

CLAIM AMENDMENTS

1 Claim 7 (currently amended) A reactor for gasifying
2 granular fuels, which comprises:

3 a casing;

4 a reservoir for holding the granular fuel and
5 communicating with the inside of the casing;

6 structure in said casing for defining a fixed bed of the
7 granular fuel at a lower portion of which, an oxygen-containing
8 gasification medium is introduced, said gasification medium moving
9 up through said fixed bed of granular fuel;

10 a gas inlet for said gasification medium below said bed
11 and admitting said gasification medium to said fuel for an
12 endothermic reaction thereof with partial oxidation;

13 a discharge duct located above the fixed bed of granular
14 fuel through which product gas containing hydrogen and carbon
15 oxides is withdrawn from the reactor; and

16 at least one centrifugal separator in said casing and at
17 least partially surrounded in said bed for separating solids from
18 the product gas, having an inlet opening located at least in part
19 above the fixed bed of granular fuel for dust-laden product gas
20 coming from the fixed bed of granular fuel, an outlet line for
21 product gas, and a solid discharge line leading into the fixed bed,
22 said outlet line from the centrifugal separator communicating with
23 the discharge duct.

1 Claim 8 (previously presented) The reactor for gasifying
2 granular fuels defined in claim 7 wherein several centrifugal
3 separators are disposed in the reactor and the outlet lines of the
4 separators open into an annular chamber disposed in the upper
5 portion of the reactor, which annular chamber communicates with the
6 discharge duct.

1 Claim 9 (previously presented) The reactor for gasifying
2 granular fuels defined in claim 7 wherein in the upper portion of
3 the reactor a vertical annular wall is provided and the inlet
4 opening of the separator is disposed outside the portion of the
5 reactor enclosed by the annular wall.

1 Claim 10 (previously presented) The reactor for
2 gasifying granular fuels defined in claim 9 wherein the separator
3 is disposed outside the portion enclosed by the annular wall.

1 Claim 11 (previously presented) The reactor for
2 gasifying granular fuels defined in claim 7 wherein the centrifugal
3 separator is a cyclone.

Claim 12 (canceled)